

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/CA 03/00236

10/522330

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01H9/06

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

WPI Data, EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 342 931 A (GROSSMANN HORST ET AL) 3 August 1982 (1982-08-03) column 5, line 37 -column 6, line 10; figure 3 ---	1
A	US 4 588 910 A (BAUSCH ALFRED) 13 May 1986 (1986-05-13) column 4, line 11 - line 28; figure 3 ---	1,2
A	US 3 260 827 A (JOHN FRENZEL CARL) 12 July 1966 (1966-07-12) figures ---	1
A	WO 99 46787 A (NIKLEWSKI GERHARD ; JUNG PETER (DE); MARQUARDT GMBH (DE); MERKEL KL) 16 September 1999 (1999-09-16) claims; figures -----	1

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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Date of the actual completion of the International search 21 May 2003	Date of mailing of the International search report 30/05/2003
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016	Authorized officer Janssens De Vroom, P

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Information on patent family members

International Application No

PCT/CA 03/00236

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 4342931	A	03-08-1982	AT	15841 T	15-10-1985
			AT	26503 T	15-04-1987
			DE	3266454 D1	31-10-1985
			DE	3276034 D1	14-05-1987
			EP	0057414 A2	11-08-1982
			EP	0143909 A1	12-06-1985
US 4588910	A	13-05-1986	DE	3342412 A1	05-06-1985
			CA	1219623 A1	24-03-1987
			FR	2555490 A1	31-05-1985
			GB	2150354 A ,B	26-06-1985
			IT	1177306 B	26-08-1987
US 3260827	A	12-07-1966	BE	677819 A	01-08-1966
			CH	444617 A	30-09-1967
			DE	1552426 A1	08-01-1970
			FR	1471595 A	03-03-1967
			GB	1128666 A	02-10-1968
			NL	133173 C	
			NL	6603405 A	13-01-1967
			NL	7011302 A ,B	26-10-1970
WO 9946787	A	16-09-1999	WO	9946787 A1	16-09-1999
			DE	19909854 A1	16-09-1999
			DE	59900748 D1	28-02-2002
			EP	1062673 A1	27-12-2000
			US	6489578 B1	03-12-2002